

Date: Tuesday, 9/12/2006 1:10:46 PM  
User: Kilo Johnston

## Process Sheet

Customer	: CU-DAR001 Dart Helicopters Services	Drawing Name	: X-TUBE AS 350/355 HI FWD
Job Number	: 28466A	Part Number	: D350748141
Estimate Number	: 12484	Drawing Number	: D350-748-141
P.O. Number	: N/A	Project Number	: N/A
This Issue	: 9/12/2006 S.O. No. : N/A	Drawing Revision	: C UNDER REVIEW
Prsht Rev.	: NC	Material	: N/A
First Issue	: N/A Type : LANDING GEAR	Due Date	: 10/25/2006
Previous Run	: 28461A	Qty:	1 Um: Each
Written By	[Signature]		
Checked & Approved By	[Signature] 06.09.12		
Comment	Est Rev: A New Issue 06-07-05 JLM Est Rev: B Update cadplate process 06-09-12 KJ		

### Additional Product

Job Number:



Seq. #:	Machine Or Operation:	Description :
---------	-----------------------	---------------

1.0	DC	DOCUMENT CONTROL
-----	----	------------------



**Comment:** DOCUMENT CONTROL

Photocopy bluefile and create labels as per PPP D350-748-141 CHG001

N/A

2.0	D6017115	Crosstube Material
-----	----------	--------------------



**Comment:** Qty.: 1.0000 Each(s)/Unit Total : 1.0000 Each(s)

Crosstube Material

D6017-115

2.339" OD X 2.000" ID

Batch: 27471

M8 06/09/13

3.0	MORI SEIKI	MORI SEIKI CNC LATHE LARGE
-----	------------	----------------------------



**Comment:** MORI SEIKI CNC LATHE LARGE

1-Fill tube with sand & install plugs on both ends as per Folio FA648

2-Turn first side as per Folio FA648

3-Deburr & Inspect for surface damage. Repair damage within limits as per Dwg D350-748-141.

M8 06/09/16

4.0	QC1	INSPECT ALL DIM TO DIM SHEET
-----	-----	------------------------------



**Comment:** INSPECT ALL DIM TO DIM SHEET

M8 06/09/16

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Date: Tuesday, 9/12/2006 1:10:46 PM  
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Customer: CU-DAR001 Dart Helicopters Services

Drawing Name: X-TUBE AS 350/355 HI FWD

Job Number: 28466A

Part Number: D350748141

Job Number:



Seq. #:

Machine Or Operation:

Description :

5.0

MORI SEIKI

MORI SEIKI CNC LATHE LARGE



Comment: MORI SEIKI CNC LATHE LARGE

1-Turn second side as per Folio FA648

2-Deburr & Inspect for surface damage. Repair damage within limits as per Dwg D350-748-141.

3-Scribe Part & Batch as per Dwg D350-748-141

MS 06/09/16

6.0

QC1

INSPECT ALL DIM TO DIM SHEET



Comment: INSPECT ALL DIM TO DIM SHEET

MS 06/09/16

7.0

QC8

SECOND CHECK



Comment: SECOND CHECK

PG 06-09-19

8.0

LANDING GEAR 1

LANDING GEAR RESOURCE 1



Comment: LANDING GEAR RESOURCE 1

Remove all Machinig Marks

fm 06-9-250

9.0

OUTSIDE SERVICE

OUTSIDE SERVICES



Comment: Sub-Contracting OUTSIDE SERVICES

Issue P/O: 2129

Heat Treat to min 180 KSI As per Dwg D350-748-141

Sand Blast tube after Heat Treat

Possibe Supplier: Vac Aero

Ensure Certificate of Conformity is attached

C206/09/240

10.0

PACKAGING 1

PACKAGING RESOURCE #1



Comment: PACKAGING RESOURCE #1

Receive & Inspect For Transit Damage

Ensure certificate of conformaty is attached

06/10/12 0

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
06.12.20	15	MAGNETIC PARTICULATE INSPECT PER DART QSI 038 4.2 CADMIUM PLATE PER AMS-QQ-7-4163 CLASS I TYPE II REF D350-748-141 Rev. D				UP 06.12.20 per QSI 042	 06.12.20

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes ☒ No ☐ DQA: Date: 07/01/02  
QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Date: Tuesday, 9/12/2006 1:10:46 PM  
User: Kim Johnston

## Process Sheet

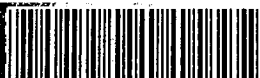
Customer: CU-DAR001 Dart Helicopters Services

Drawing Name: X-TUBE AS 350/355 HI FWD

Job Number: 28466A

Part Number: D350748141

Job Number:



Seq. #:

Machine Or Operation:

Description :

11.0

QC6

DIMENSIONAL CHECK



*20-10-18 (U)*



Comment: DIMENSIONAL CHECK

12.0

BENDING

BENDING MACHINE



Comment: BENDING MACHINE

Bend tube as per Dwg D350-748-141 using CNC bender program D350F and Folio FT

*DP 6-10-1*

13.0

QC6

DIMENSIONAL CHECK



Comment: DIMENSIONAL CHECK

*2006/11/07 (U)*

14.0

LANDING GEAR 1

LANDING GEAR RESOURCE 1



Comment: LANDING GEAR RESOURCE 1

1-Remove all marks from tube within limits of D350-748-141

2-Drill Tube as per Dwg D350-748-141 Using DT8876 Drill Jigs,  
Set-up drill table as per QSI 010

3-Deburr

4-Engrave Part # and Batch # as per Dwg D350-748-141

*DP 6-11-3*

*DP 6-11-13*

15.0

OUTSIDE SERVICE

OUTSIDE SERVICES



Comment: Sub-Contracting OUTSIDE SERVICES

Issue P/O: 2501

Stress relief at 375° for 5 hours

Magnetic Particle Inspect per ASTM E1444

Cadium Plate per QQ-P-416F, Class 1, Type 2

Embrittle relief at 375° for 8 hours, Chromate Treat

Possible Supplier: Southwest United Industries

Ensure Certificate of Conformity is attached

*C20611115 (U)*



16.0

PACKAGING 1

PACKAGING RESOURCE #1



Comment: PACKAGING RESOURCE #1

Receive & Inspect For Transit Damage

Ensure certificate of conformity is attached

*CU 6/12/20 (U)*

**Dart Aerospace Ltd**

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

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Customer: CU-DAR001 Dart Helicopters Services

Drawing Name: X-TUBE AS 350/355 HI FWD

Job Number: 28466A

Part Number: D350748141

Job Number:



Seq. #:

Machine Or Operation:

Description :

17.0

QC5

INSPECT WORK TO CURRENT STEP



*Joe 12-20 (1)*



Comment: INSPECT WORK TO CURRENT STEP

18.0

SPRAY PAINTING

SPRAY PAINTING



Comment: SPRAY PAINTING

1-Prime inside crosstube as per QSI 005 4.2

*ml 06 12 20*

*(1)*

2-Paint Outside of Tube as per Dart QSI 005 4.2

*ml 06 12 20*

*(1)*

19.0

QC14

Inspect Spray Paint



*Joe 12-21 (1)*



Comment: Inspect Spray Paint

Then, Wrap in plastic bag to protect from scratches

20.0

D35021

SUPPORT



Comment: Qty.: 2.0000 Each(s)/Unit Total: 2.0000 Each(s)

SUPPORT

Batch:

*B27874*

*25 06-12-21*

21.0

D2856400

Abrasion Strip



Comment: Qty.: 1.2401 f(s)/Unit Total: 1.2401 f(s)

Abrasion Strip 7.10" long x2

Batch:

*B28258*

*25 06-12-21*

22.0

ALS41032225

Insert



Comment: Qty.: 1.0000 Each(s)/Unit Total: 1.0000 Each(s)

Insert

Batch:

*M19393*

*25 06-12-21*

23.0

AN960JD10

Washer



Comment: Qty.: 1.0000 Each(s)/Unit Total: 1.0000 Each(s)

Washer

Batch:

*100743*

*25 06 12-21*

# Dart Aerospace Ltd

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: DP Date: 07/01/02  
 QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries



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## Process Sheet

Customer: CU-DAR001 Dart Helicopters Services

Drawing Name: X-TUBE AS 350/355 HI FWD

Job Number: 28466A

Part Number: D350748141

Job Number:



Seq. #:

Machine Or Operation:

Description :

24.0

MS2192020

Clamp (per MIL-DTL-8783C)



Comment: Qty.: 2.0000 Each(s)/Unit Total: 2.0000 Each(s)

Clamp (per MIL-DTL-8783C)

Batch: M102440

FT 06-12-21

25.0

MS27039110

Screw



Comment: Qty.: 1.0000 Each(s)/Unit Total: 1.0000 Each(s)

Screw

Batch: B18836

FT 06-12-21

26.0

LANDING GEAR 1

LANDING GEAR RESOURCE 1



Comment: LANDING GEAR RESOURCE 1

1-Install Ground wire Insert, then insert screw and washer

2-Install Abrasion strips as per Dwg D350-748-141 & QSI 035.

3-Install supports Using Dt8876 as per Dwg D350-748-141, Torque to 60-80 IN-LBS

FT 06-12-21

27.0

QC5

INSPECT WORK TO CURRENT STEP



Comment: INSPECT WORK TO CURRENT STEP

12/06/12/22 0

28.0

PACKAGING 1

PACKAGING RESOURCE #1



Comment: PACKAGING RESOURCE #1

Identify and pack for shipping as per PPP D350-748-241

Location: \_\_\_\_\_

PPP Rev: \_\_\_\_\_

N/A

29.0

QC21

FINAL INSPECTION/W/O RELEASE



Comment: FINAL INSPECTION/W/O RELEASE

07/01/02

Job Completion



POSITIVE RECALL

EFFECTIVE 06.09.13 AUTH UP

RELEASED UP DATE 06.12.20

06.12.29

**Dart Aerospace Ltd**

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
06/12/22	27.1	Use Lps 3 inside of crosstube <u>M 101915</u>					<i>M</i> 06/12/22

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries



DESIGN <i>qp</i>	DRAWN BY <i>qp</i>	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED <i>#</i>	APPROVED <i>#</i>	DRAWING NO. D350-748-141	REV. C SHEET 1 OF 3
DATE 06.08.14		TITLE CROSSTUBE (AS 350/355 HI FWD) NTS	
A	06.03.31	NEW ISSUE	
B	06.06.30	ADD D6017-115 & PRIME AND PAINT	
C	06.08.14	ADD CAD PLATING	

**UNDER REVIEW**

*qp* 06.08.07  
CAD PLATING TRACK COPY  
LONG CHANGE

QTY	P/N	DESCRIPTION
X	D350-748-141	CROSSTUBE ASSEMBLY (AS 350/355 HI FWD)
1	D6017-115	CROSSTUBE (OR D6015-125)
2	D3502-1	SUPPORT
2	D2856-400-710	ABRASION STRIP
1	AELS-1032-225	INSERT
1	AN960JD10	WASHER
2	MS21920-20	CLAMP (PER DART SPEC. M-MS21920-20)
1	MS27039-1-10	SCREW

**D350-748-141 CROSSTUBE:**

- 1) MATERIAL: MANUFACTURED FROM D6017-115 OR D6015-125  
FINISHED LENGTH = 110.27±0.06
- 2) MACHINE PER MACHINING DETAIL ON PAGE 3. BLEND OUT ALL EDGES FROM MACHINING LONGITUDINALLY, TRANSITIONS SHOULD BE SMOOTH. NOTE: ALL HOLES ARE DRILLED AFTER BENDING.
- 3) SCRIBE DART PART NUMBER AND BATCH NUMBER IN THIS AREA WITH VIBRATING STYLUS.
- 4) BEND PROGRESSIVELY WITH A MINIMUM OF 7 PASSES. MAXIMUM TUBE FLATTENING DUE TO BENDING IS 6% BASED ON O.D.
- 5) HEAT TREAT TO MIN. 180 KSI PER MIL-T-6736 OR AMS 2759-1C AFTER TURNING
- 6) FINISH: CADMIUM PLATE PER QQ-P-416F, CLASS 1, TYPE II  
MAGNETIC PARTICLE INSPECT PER ASTM E1444 AFTER CADMIUM PLATING  
PRIME INSIDE AND OUTSIDE PER DART QSI 005 4.2  
PAINT OUTSIDE PER DART QSI 005 4.2
- 7) EXTREME CARE MUST BE TAKEN TO PROTECT THE OUTSIDE SURFACE OF THE TUBE. THE OUTSIDE SURFACE MUST BE SMOOTH AND FREE FROM SURFACE DEFECTS SUCH AS SCRATCHES, NICKS, OR DENTS. DEFECTS UP TO 0.005" MAY BE BLENDED OUT LONGITUDINALLY. CIRCUMFERENTIAL GRIND MARKS ARE UNACCEPTABLE. WHEN DRILLING HOLES EXTREME CARE MUST BE TAKEN AND CAREFUL DEBURRING PERFORMED TO ENSURE A CLEAN HOLE WITH NO CRACKING/CHIPPING/GROOVES.
- 8) INSTALL D2856-400-710 ABRASION STRIP WITH A GAP ON BOTTOM SIDE OF CROSSTUBE CENTERED OPPOSITE D3502-1 SUPPORT, PER QSI 035.
- 9) TORQUE MS21920-20 CLAMPS 60 TO 80 IN-LB
- 10) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED.
- 11) ALL DIMENSIONS ARE IN INCHES
- 12) PART IS SYMMETRIC ABOUT CENTERLINE EXCEPT FOR Ø0.297 HOLE.

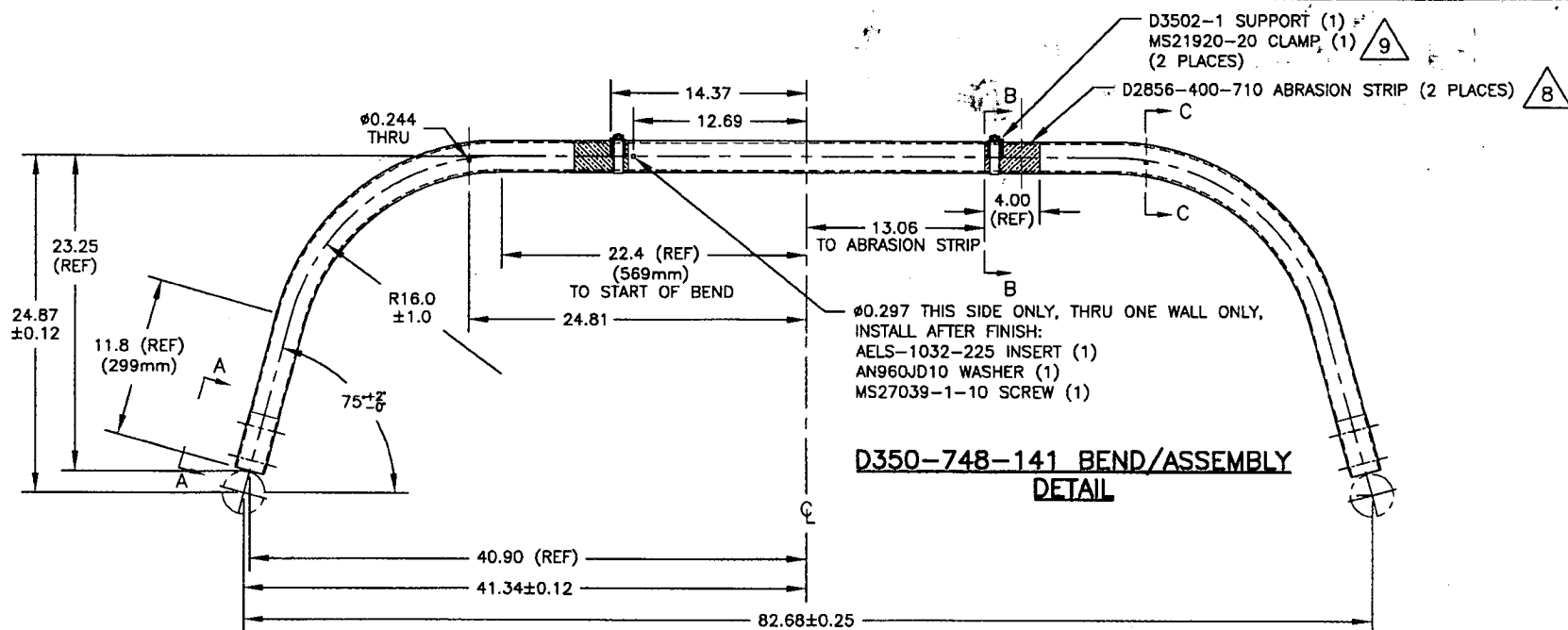
**RELEASED**

06.08.15 *#*

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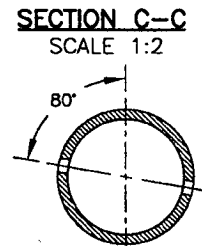
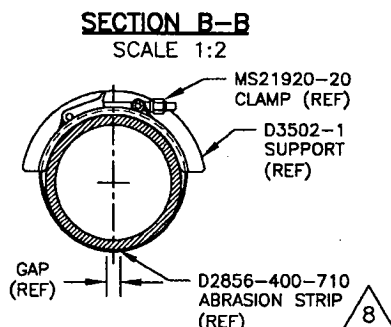
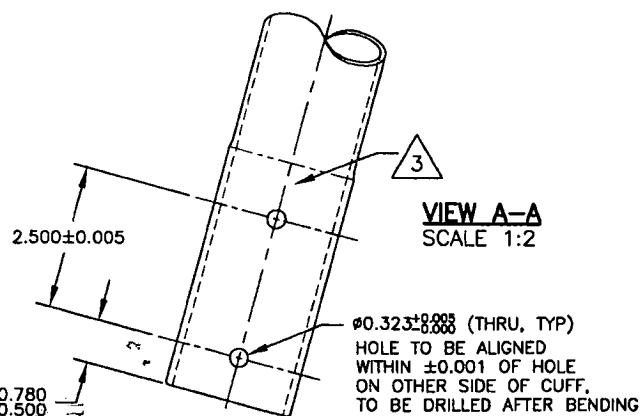
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**D350-748-141 BEND/ASSEMBLY  
DETAIL**

UNDER REVIEW  
9/26/07



**RELEASED**

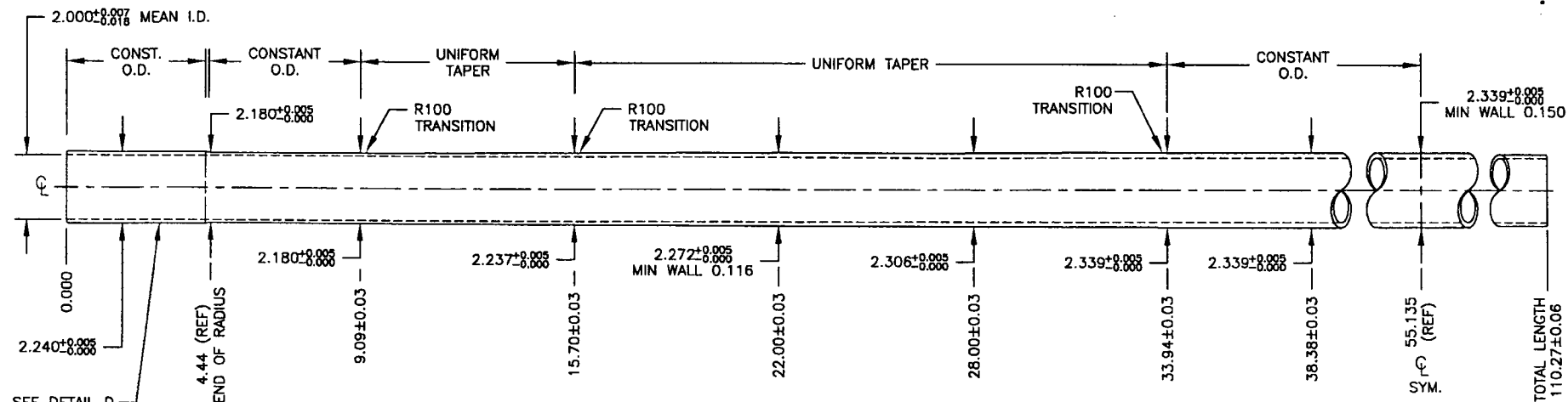
06.08.15 #

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DESIGN	9	DRAWN BY	9	<b>DART</b>	DART AEROSPACE LTD. MARKHAM, ONTARIO, CANADA
CHECKED	4	APPROVED	4	DRAWING NO.	D350-748-141
DATE	06.08.14	TITLE	CROSSTUBE (AS 350/355 HI FWD)	SHEET 2 OF 3	SCALE 1:8

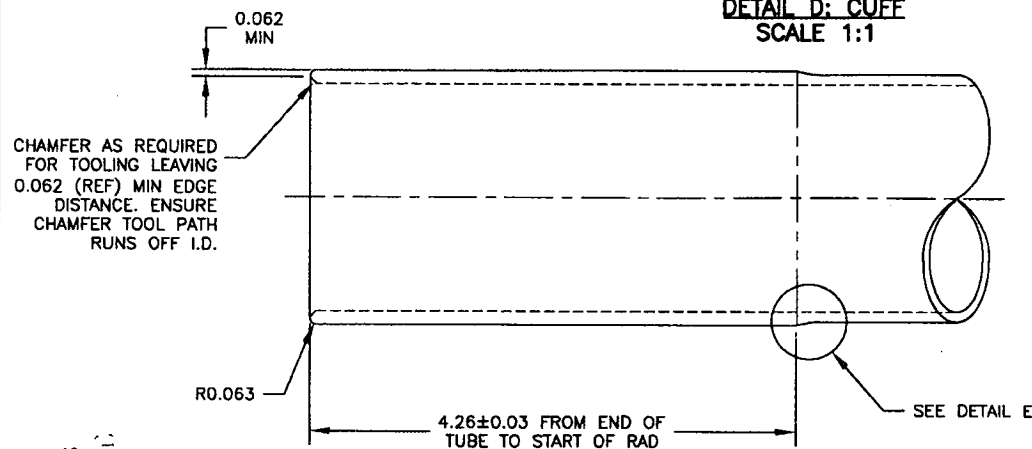
WORK COPY  
 RETURN TO  
 ENGINEERING  
 UNCONTROLLED COPY  
 WITHOUT NOTICE  
 WORK ORDER  
 28466A





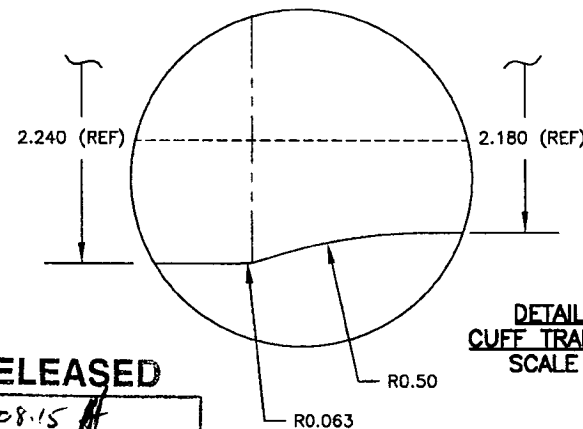
**D350-748-141 MACHINING DETAIL**

**DETAIL D: CUFF  
SCALE 1:1**



**RELEASED**

06.08.15



**DETAIL E:  
CUFF TRANSITION  
SCALE 9:1**

**UNDER REVIEW**

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DESIGN	DP	DRAWN BY	DP	<b>DART</b>	DART AEROSPACE LTD. WINDSOR, ONTARIO, CANADA
CHECKED	#	APPROVED	#	DRAWING NO. D350-748-141	REV. C SHEET 3 OF 3
DATE	06.08.14	TITLE	CROSSTUBE (AS 350/355 HI FWD)	SCALE	1:3

NO. 28466 A

WORK ORDER

UNCONTROLLED COPY

SUBJECT TO AMENDMENT

WITHOUT NOTICE

ENGINEERING

RETURN TO

SHOP COPY





<b>DART AEROSPACE LTD</b>	<b>Work Order:</b> 28466A
<b>Description:</b> X-Tube AS 350/355 HI FWD	<b>Part Number:</b> 350-748-141
<b>Inspection Dwg:</b> 350-748-141 Rev: C	<b>Page 1 of 1</b>

### FIRST ARTICLE INSPECTION CHECKLIST

☒ First Article ☐ Prototype

Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
.062	+ .010 - .000	.065	✓			
.063	+ .010	.063	✓			
4.26	+ .03	4.26	✓			
2.240	+ .005 - .000	2.241	✓			
2.180	"	2.184	✓			
2.237	"	2.242	✓			
2.272	"	2.277	✓			
2.306	"	2.309	✓			
2.339	"	2.340	✓			
.062	+ .010 - .000	.065	✓			
.063	+ .010	.063	✓			
4.26	+ .03	4.26	✓			
2.240	+ .005 - .000	2.241	✓			
2.180	"	2.185	✓			
2.237	"	2.242	✓			
2.272	"	2.277	✓			
2.306	"	2.310	✓			
2.339	"	2.340	✓			
110.27	+ .06	110.27	✓			

<b>Measured by:</b> MS	<b>Audited by:</b> [Signature]	<b>Prototype Approval:</b> [Signature]
<b>Date:</b> 06/09/17	<b>Date:</b> 06.09.19	<b>Date:</b> [Signature]

Rev	Date	Change	Revised by	Approved
A		New Issue	KJ/JLM	





# VAC AERO

INTERNATIONAL INC.

## RELEASE NOTE

GST No.: R105468102

OAK 79915-1



HEAD OFFICE  
1371 SPEERS ROAD, OAKVILLE, ONTARIO  
CANADA L6L 2X5  
TEL: (905) 827-4171 FAX: (905) 827-7489



2009 WYECROFT ROAD, UNIT B  
OAKVILLE, ONTARIO  
CANADA L6L 6J4  
TEL: (905) 827-7377 FAX: (905) 827-1380



QUEBEC DIVISION  
7450 RUE VÉRITÉ STREET, ST. LAURENT, QUÉBEC  
CANADA H4S 1C5  
TEL: (514) 334-4240 FAX: (514) 334-6269

10/11/2006

MM / DD / YYYY

PAGE : 1

BILL TO: 1DAR01  
DART AEROSPACE LTD.  
1270 ABERDEEN ST.  
HAWKESBURY, ON

SHIP TO: DART AEROSPACE LTD.  
1270 ABERDEEN ST.  
HAWKESBURY, ON

K6A 1K7

K6A 1K7

DATE SHIPPED	SHIP VIA	F.O.B.
10/11/2006		ORIGIN
CUSTOMER P/O No.	JOB No.	TERMS
PO00002129		COD

PART No.	DESCRIPTION	UOM	QTY ORD	QTY SHPD	TEST RESULTS
D350-CROSS TUBES	EA	10	10		
<p>Process Specifications: Procedure: 4352 HEAT TREATED TO 180-200 KSI PER AMS 2759-1C 100% HARDNESS TESTED PER ASTM E-18 HRC 40-43 MATERIAL: 4130</p> <p>5 PCS. P/N: D350748141 B28459, B28460, B28458, B28466, B28461 5 PCS. P/N: D350748241 B28162, B28464, B28465, B28463, B28471</p> <p>SANDBLASTED AFTER HEAT TREAT</p>					
<div>100% HARDNESS TESTED 10 PCS. 42/43 HRC</div> <div>VAL. O. TH. 25 Q.C.</div> <div>061019</div>					

I hereby certify that the material covered by this release note has been inspected and tested and conforms to all specifications relevant thereto in accordance with the conditions of the contract / or purchase order.

ON BEHALF OF VAC AERO INTERNATIONAL INC.

*Aura Freeman*  
Authorized Q.C. Inspector

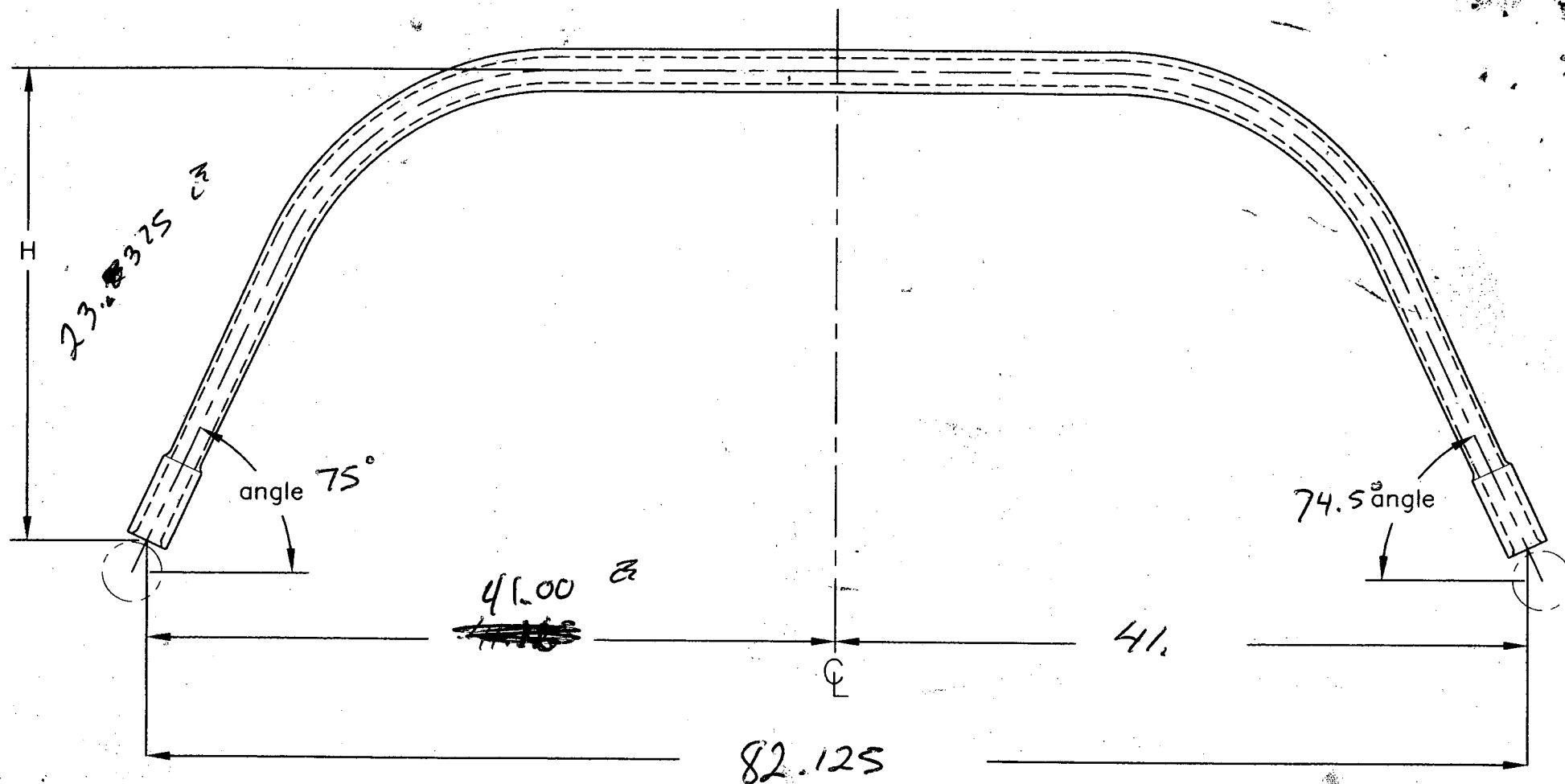


HEAT  
TREATING



VACUUM BRAZING - HEAT TREATING - SPECIAL PROCESSING - FURNACE EQUIPMENT





DATE: 06/11/06  
 DESCRIPTION: A350748141  
 BATCH NO: B28466A  
 DRAWING: A350748141 Rev C under rev  
 H: 23.25"  
 1/2 SPAN: 40.90"  
 TOTAL SPAN: 81.8"  
 ANGLE: 75°

06/11/07





# Southwest United Industries, Inc.

SOUTHWEST UNITED INDUSTRIES, INC.  
422 S. St. Louis Tulsa, OK 74120

Page 1 of 1

## PACKING LIST

DART AEROSPACE LTD  
1270 ABERDEEN STREET  
HAWKESBURY, ON K6A 1K7

Ship Date: 12/18/2006

QTY		Part Number/Description	
Certification #: 14450		Certification Date: 12/18/2006	
1.00	D350-748-141	Ref-No: B28458A	
	CROSSTUBE	Job-No: 32000	
		P/O #: 274731	
1.00	D350-748-141	Ref-No: B28460A	
	CROSSTUBE	Job-No: 32014	
		P/O #: 274731	
1.00	D350-748-141	Ref-No: B28466A	
	CROSSTUBE	Job-No: 32015	
		P/O #: 274731	
1.00	D350-748-141	Ref-No: B28462A	
	CROSSTUBE	Job-No: 32016	
		P/O #: 274731	
1.00	D350-748-141	Ref-No: B28463A	
	CROSSTUBE	Job-No: 32017	
		P/O #: 274731	
1.00	D350-748-141	Ref-No: B28465A	
	CROSSTUBE	Job-No: 32018	
		P/O #: 274731	
JOB QTY FOR 14450:		6	SHIPPED QTY FOR 14450: 6

Tracking #: k

Ship Via: OTHERS

COD Amount: \$ 1,980.00

FAA Repair Station CN2R748K

Subject to Southwest United Industries, Inc. Standard Terms and Conditions available for review at [www.swunited.com](http://www.swunited.com)



## Southwest United Industries, Inc.

SOUTHWEST UNITED INDUSTRIES, INC.  
422 S. St. Louis Tulsa, OK 74120

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### CERTIFICATION

DART AEROSPACE LTD  
1270 ABERDEEN STREET  
HAWKESBURY, ON K6A 1K7  
CANADA

Certification #: 14450

Certification Date: 12/18/2006

Qty	Part Number/Description	Job-No/Order-No/Ctl-No
1	D350-748-141 CROSSTUBE	32000 274731 B28458A
1	D350-748-141 CROSSTUBE	32014 274731 B28460A
1	D350-748-141 CROSSTUBE	32015 274731 B28466A
1	D350-748-141 CROSSTUBE	32016 274731 B28462A
1	D350-748-141 CROSSTUBE	32017 274731 B28463A
1	D350-748-141 CROSSTUBE	32018 274731 B28465A

1. Stress relieve at 350-400F for 4 hours minimum

2. Cadmium plate per AMS-QQ-P-416B, Type II, Class 1 (QQ-P-416, Type II, Class 1) ✓

3. Embrittlement relieve within 4 hours of plating at 350-400F for 8 hours minimum

4. Magnetic particle inspect per ASTM E 1444-05. ✓  
No linear indications/cracks allowed.

Qty Ins: 6    Qty Rej: 0    Qty Acc: 6

5. Inspect

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## CERTIFICATION

We certify that the parts listed above have been processed in accordance with the requirements and specifications of the above referenced purchase order. Documentation is on file and available for review.

Certification By: 

WISE, ROBERT



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